

Claims

1. An electrically controlled mirror for a motor vehicle, provided with a support to be mounted on a vehicle for a mirror housing having a mirror plate movable in said mirror housing and electromechanical means for adjusting the mirror housing relative to the support and the mirror plate relative to the mirror housing, and with any means for accommodating one or more other functions, such as mirror heating, electrochrome dimming of light falling on the mirror plate, various lighting functions, remote control means, etc. in the mirror housing, characterized in that the mirror housing comprises one single build-up element on which said means are provided, in which build-up element a reinforcement element is provided for increasing the rigidity and strength of the build-up element.

10 2. An electrically controlled mirror according to claim 1, characterized in that the build-up element forms one whole and is manufactured from a plastic, the reinforcement element being made of metal and insert-molded, in wholly or partially folded condition, in the plastic build-up element.

15 3. An electrically controlled mirror according to claim 2, characterized in that the reinforcement element forms a multi-core electric conductor for the functions to be realized in the mirror housing by said means.

20 4. An electrically controlled mirror according to any one of the preceding claims, characterized in that the build-up element has a space in which an electronics unit for controlling the various functions is accommodated.

25 5. An electrically controlled mirror according to any one of the preceding claims, characterized in that the build-up element has a space for the means for adjusting the mirror plate relative to the mirror housing.

30 6. An electrically controlled mirror according to any one of the preceding claims, characterized in that the build-up

element has one space for both the electronics unit for controlling the various functions and the means for adjusting the mirror plate relative to the mirror housing.

7. An electrically controlled mirror according to any one of the preceding claims, characterized in that the build-up element has a space in which, in cooperation with a space in a mounting base element in the support, the means for adjusting the mirror housing relative to the support are accommodated.

10 8. An electrically controlled mirror according to any one of the preceding claims, characterized in that the build-up element has one or more further spaces for lighting means.

9. An electrically controlled mirror according to any one of the preceding claims, characterized in that the electric conductor comprises an input conductor with two feed lines and at least one data line.

15 10. An electrically controlled mirror according to claim 9, characterized in that over the data line or lines, digital serial information is passed on multiplex basis from the vehicle to the electronics unit and control signals are provided by this electronics unit over relevant cores in the electric conductor for controlling the various components in the mirror housing.

11. An electrically controlled mirror according to any one of the preceding claims, characterized in that via the space in the mounting base element in the support, the cable work of the mirror can be connected from the vehicle to the electric conductor integrated into the build-up element.

12. An electrically controlled mirror according to claim 11, characterized in that the connection of the cable work from the vehicle to the electric conductor extends through the shaft via which shaft the mirror housing can rotate relative to the support on the vehicle.

13. An electrically controlled mirror according to claim 12, characterized in that in said shaft a connector is provided to which the cable work from the vehicle is connected and

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that the electric conductor comprises a plug which, when the build-up element is being slid over the mounting base element, is plugged into the connector.

14. An electrically controlled mirror according to claims 5
5 and 6, characterized in that the means for adjusting the
mirror plate relative to the mirror housing are provided on a
mounting plate and that the space for these means comprises
projecting, pin-shaped parts which form one whole with the
build-up element and on which the mounting plate can be
10 secured by a clip connection.

15. An electrically controlled mirror according to claim 14,
characterized in that the clip connection is obtained by a
clip fixedly provided on the mounting plate.

16. An electrically controlled mirror according to claim 14,
15 characterized in that the pin-shaped parts comprise a widened
portion and, adjacent the free end, a narrowed portion, the
mounting plate which has been slid over the narrowed portion
being clamped between the top edge of said widened portion
and a cover element present for the driving means for
20 adjusting the mirror plate, which driving means are to be
provided on the mounting plate, the cover element being
secured by a clip connection.

17. An electrically controlled mirror according to claim 16,
characterized in that the clip connection is obtained by a
25 clip fixedly provided on the cover element.

18. An electrically controlled mirror according to any one
of claims 14-17, characterized in that the electronics unit
for controlling the various functions is provided on the
mounting plate.

30 19. An electrically controlled mirror according to claim 14,
characterized in that at least a part of the electronics of
the electronics unit is located on the other side of the
mounting plate where the means for adjusting the mirror plate
relative to the mirror housing are provided.

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